

## GACMO: Frequently Asked Questions (FAQs)

### How can I get GACMO?

The GACMO tool is available on the [website of the UNEP-CCC](#) free of charge.

### What software is required to run GACMO?

In order to work with GACMO, you only need to have Excel installed on your computer.

### How much time is required to build a GACMO model?

The construction of a GACMO model for a country can be finished in 1-2 weeks, if you are a GACMO expert and the statistics are available.

However, the bulk of the work is in the collection of the data. It may take 1 months to several months to collect necessary input data for GACMO, if the data is missing for a country.

### What input data is needed for a GACMO model?

- GHG emissions inventory by sectors (latest available year).
- Energy Balance (same year as GHG emissions inventory year).
- Emission factors by fuels for fuel combustion sectors (if national emission factors are available).
- Growth rates of energy consumption by sectors (annual % change up to 2025, 2030, 2035 and 2050).
- Mitigation actions by 2025, 2030, 2035, 2050. Examples of mitigation actions include installed capacity of renewable energy sources (solar, PV, wind, hydro), area covered by reforestation (hectares), etc.
- Technical and economical parameters of the technology/mitigation options (new technology and baseline technology).
- Key assumptions (e.g. grid emission factor, energy prices, etc.).

### Is it possible to use GACMO for the development/update of country's nationally determined contribution (NDC)?

GACMO can be used to develop an "NDC scenario" (by inserting mitigation actions relevant to the country) with a percentage reduction of the GHG emission compared to the Business Usual scenario (or Base Year).

### Is it possible to use GACMO tool for the assessment of expected/achieved emissions reduction of the individual mitigation actions?

The GACMO tool can be used to calculate the expected and achieved GHG reduction for each mitigation action (compared to the technology used in the baseline).

### **What is the Marginal Abatement Cost Curve (MACC) and how it can be used for the prioritization of the mitigation actions?**

Using GACMO tool, Marginal Abatement Cost Curve (MACC) or Marginal Abatement Revenue Curve (MARC) can be created. A MACC/MARC presents the costs or savings of the mitigation actions and expected emissions reductions from those mitigation actions. Marginal Abatement Revenue Curve (MARC) can be useful tool to select mitigation actions appropriate for the country based on the emissions reductions and costs/revenues.